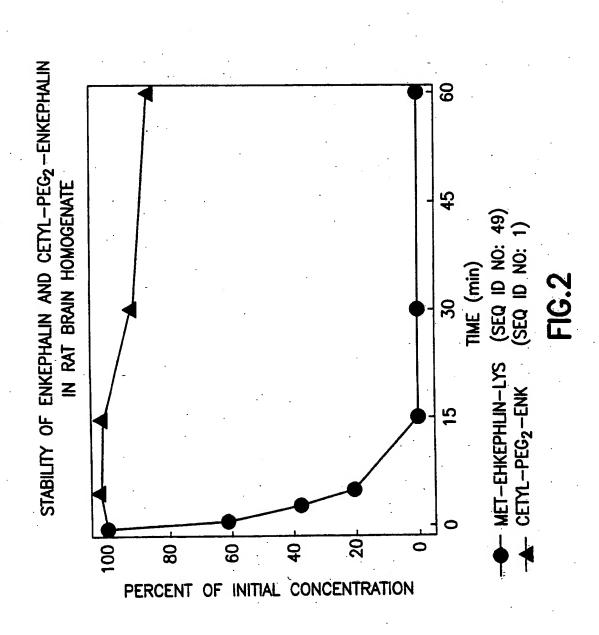
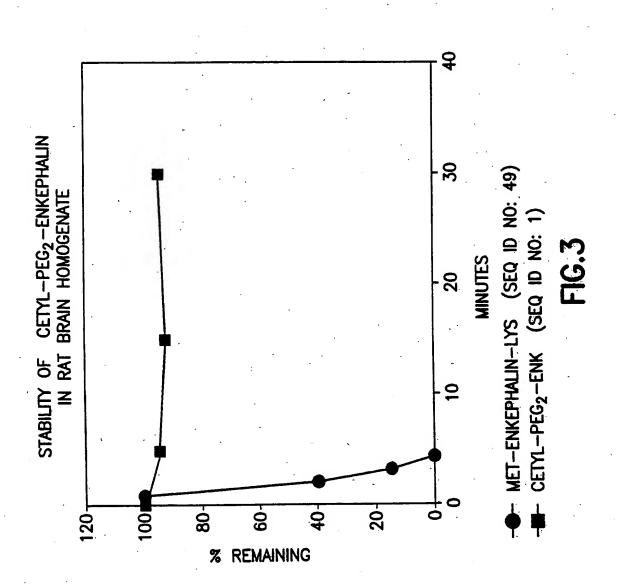
## SUGAR-CONTAINING AMPHIPHILIC OLIGOMERS

FIG.1A

FIG.1B

FIG.1C





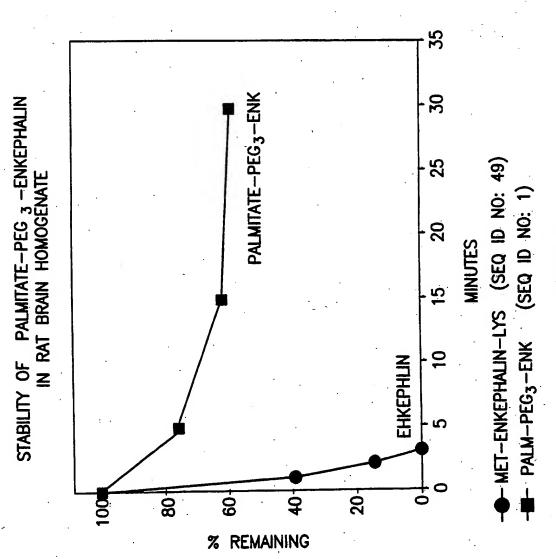
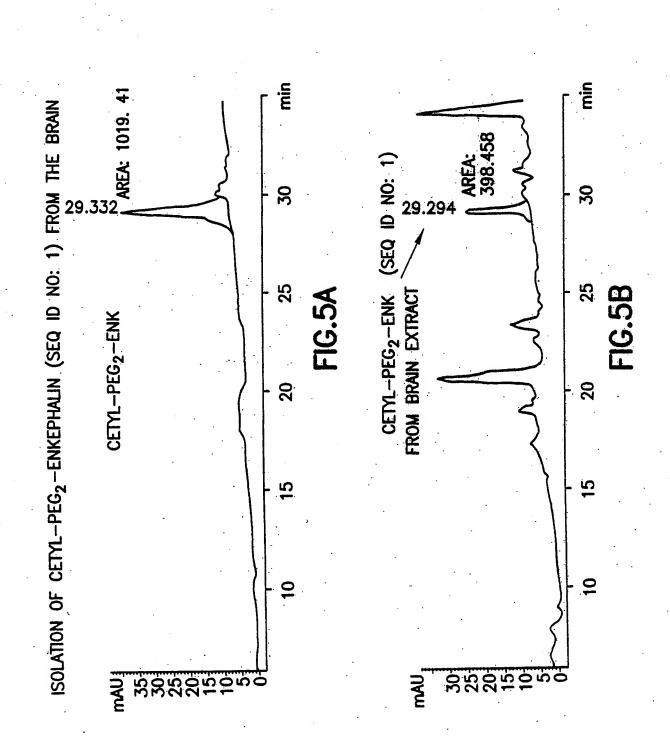
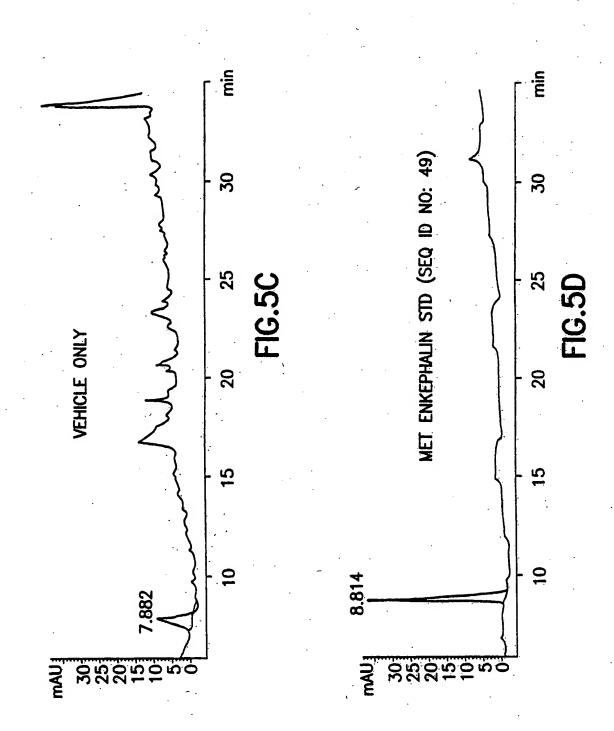
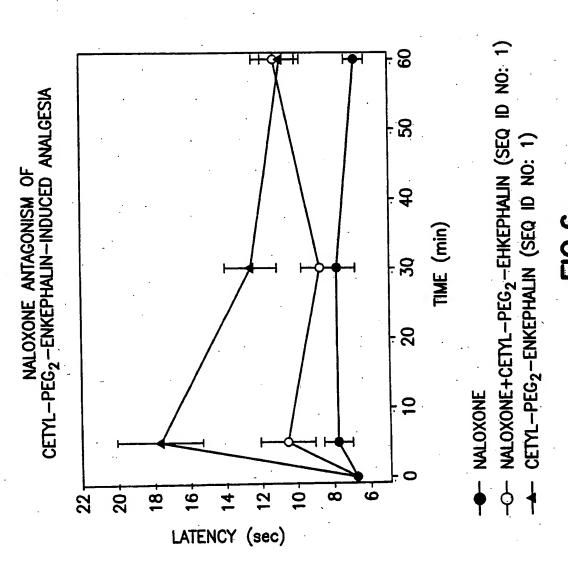


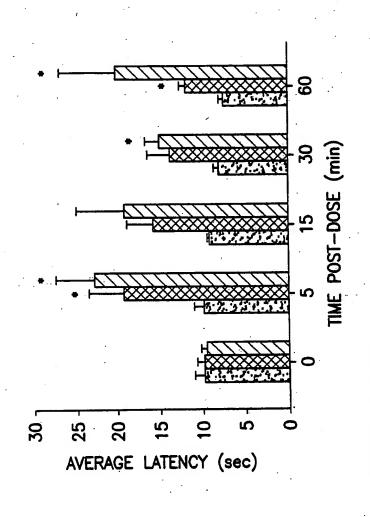
FIG.4







(SEQ ID NO: 1) g in dose of cetyl-peg\_ -enkephalin jgate in the rat hot-plate assay ANALGESIC EFFECT OF A 5 mg/kg IV



| VEHICLE | CLONIDINE | CCTYL-PEG<sub>2</sub>-ENKEPHALIN (SEQ ID NO:

FIG. 7

COMPARISON OF $\mu$ -RECE	COMPARISON OF $\mu-$ RECEPTOR BINDING AFFINITY OF ENKEPHALIN CONJUGATES	JUGATES
DRUG OR CONJUGATE	DETAILED STRUCTURE	% SPECIFIC BINDING
NALOXONE	NALOXONE	100
ENKEPHALIN	MET-ENKEPHALIN-LYS (SEQ ID NO: 49)	29
CETYL-ENK	CETYL-PEG <sub>2</sub> -ENK (SEQ ID NO: 1)	100
CHOL-ENK	CHOLESTEROL-PEG3-ENK (SEQ ID NO: 1)	95
DHA-ENK	DHA-PEG <sub>2</sub> -ENK (SEQ ID NO: 1)	63
PALM-ENK	PALMITATE-PEG3-ENK (SEQ ID NO: 1)	76
CETYL-TEG-ENK	CETYL-PEG3-ENK (SEQ ID NO: 1)	100

FIG.8

## SYNTHESIS OF OLICOMER

Me-(CH<sub>2</sub>), Br (BROMO ALKYL DERIVAT ADDITION

AMPHIPHILIC POLYMER

"FREE END"

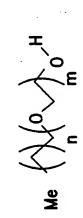


FIG.9

AMPHIPHILIC POLYMER

## ATTACHMENT OF OLIGOMER TO ENKEPHALIN

## OLIGOMER-ENKEPHALIN-CONJUGATE

10, 10

m=14 AND n=2

EXAMPLE

CETYL-PEG2-ENKEPHALIN